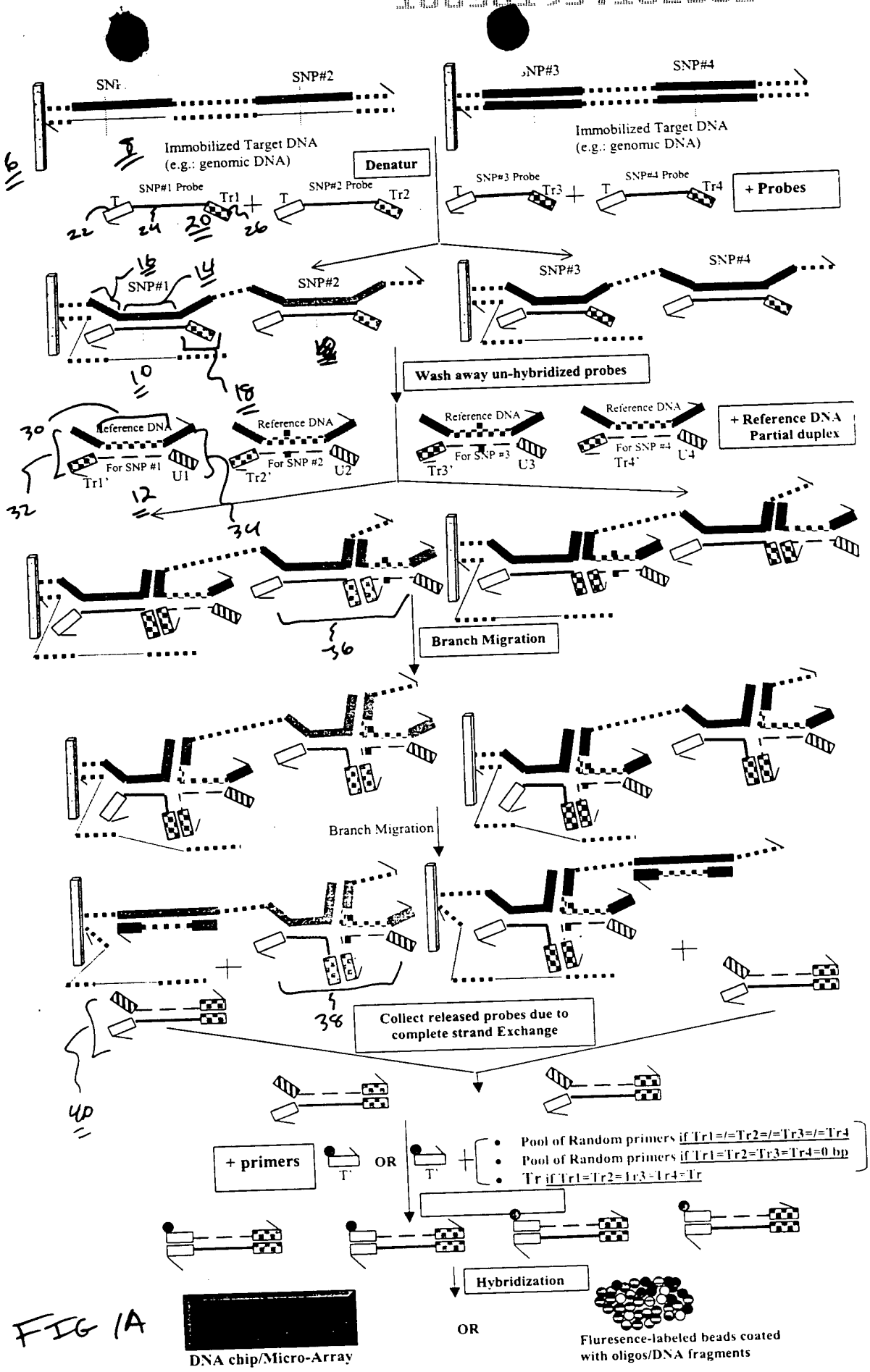
SNP#1
SNP#2
Immobilized Target DNA
(e.g.: genomic DNA)
Denatur
SNP#1 Probe
Tr1
SNP#2 Probe
Tr2
SNP#3
SNP#4
Immobilized Target DNA
(e.g.: genomic DNA)
SNP#3 Probe
Tr3
SNP#4 Probe
Tr4
+ Probes
Wash away un-hybridized probes
Reference DNA
For SNP #1
Tr1'
U1
For SNP #2
Tr2'
U2
For SNP #3
Tr3'
U3
For SNP #4
Tr4'
U4
+ Reference DNA
Partial duplex
Branch Migration
Branch Migration
Collect released probes due to
complete strand Exchange
+ primers
OR
Pool of Random primers if Tr1=/=Tr2=/=Tr3=/=Tr4
Pool of Random primers if Tr1=Tr2=Tr3=Tr4=0 bp
Tr if Tr1=Tr2=Tr3=Tr4=Tr
Hybridization
OR
DNA chip/Micro-Array
Fluresence-labeled beads coated
with oligos/DNA fragments

FIG 1A

Or alternatively:

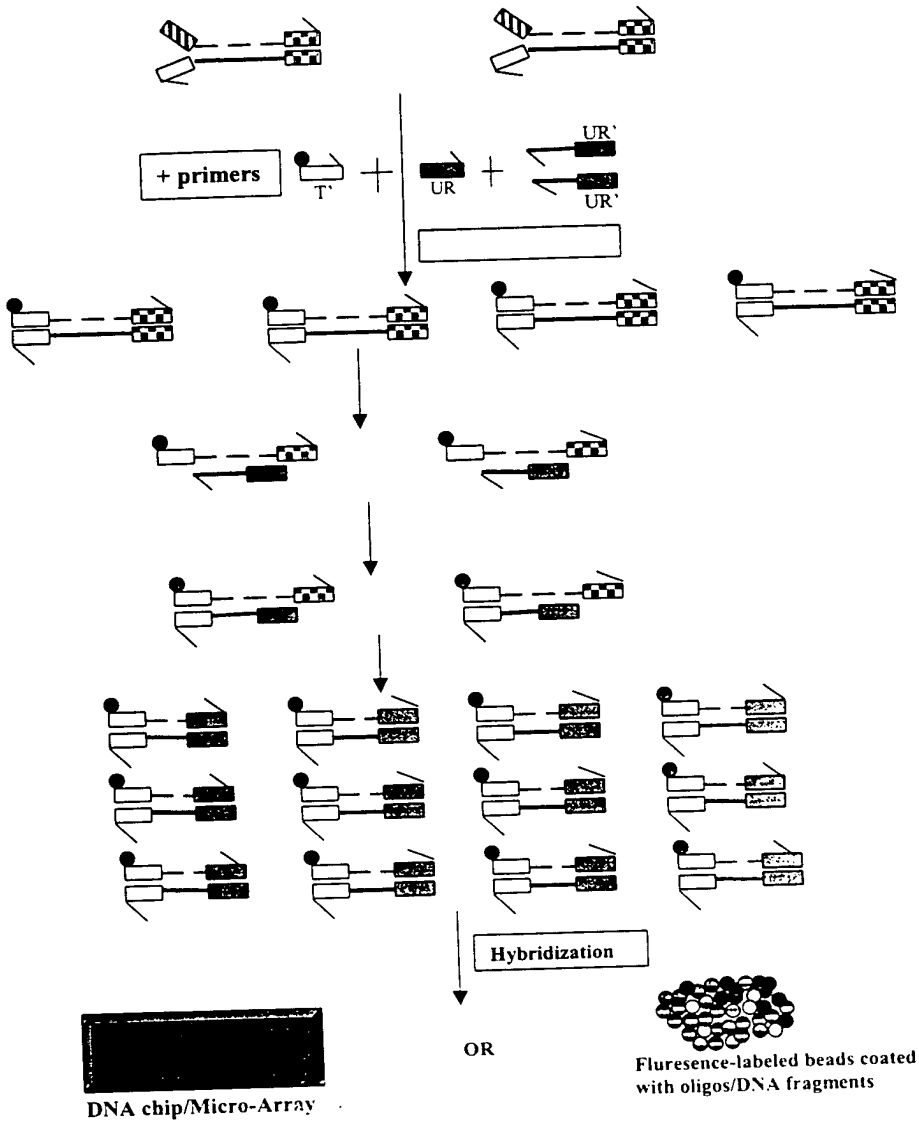

FIG 1B